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NEWS	2	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	3	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	4	AUG 13	CA/CAPplus enhanced with additional kind codes for granted patents
NEWS	5	AUG 20	CA/CAPplus enhanced with CAS indexing in pre-1907 records
NEWS	6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	7	AUG 27	USPATOLD now available on STN
NEWS	8	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	9	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	10	SEP 13	FORIS renamed to SOFIS
NEWS	11	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	12	SEP 17	CA/CAPplus enhanced with printed CA page images from 1967-1998
NEWS	13	SEP 17	CAPplus coverage extended to include traditional medicine patents
NEWS	14	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	15	OCT 02	CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	16	OCT 19	BEILSTEIN updated with new compounds
NEWS	17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	18	NOV 19	WPIX enhanced with XML display format
NEWS	19	NOV 30	ICSD reloaded with enhancements
NEWS	20	DEC 04	LINPADOCDB now available on STN

NEWS 21 DEC 14 BEILSTEIN pricing structure to change
 NEWS 22 DEC 17 USPATOLD added to additional database clusters
 NEWS 23 DEC 17 IMSDRUGCONF removed from database clusters and STN
 NEWS 24 DEC 17 DGENE now includes more than 10 million sequences
 NEWS 25 DEC 17 TOXCENTER enhanced with 2008 MeSH vocabulary in
 MEDLINE segment
 NEWS 26 DEC 17 MEDLINE and LMEDLINE updated with 2008 MeSH
 vocabulary
 NEWS 27 DEC 17 CA/Caplus enhanced with new custom IPC display
 formats
 NEWS 28 DEC 17 STN Viewer enhanced with full-text patent content
 from USPATOLD

 NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
 CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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=> s (protease or peptidase or proteinase) (4A) (fusion protein)
L1 776 (PROTEASE OR PEPTIDASE OR PROTEINASE) (4A) (FUSION
PROTEIN)

=> s (protease or peptidase or proteinase) (4A) (auto or self)
L2 571 (PROTEASE OR PEPTIDASE OR PROTEINASE) (4A) (AUTO OR
SELF)

=> s (fusion protein) (4A) (auto or self)
L3 156 (FUSION PROTEIN) (4A) (AUTO OR SELF)

=> s l1 and l2 and l3
L4 5 L1 AND L2 AND L3

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L5 5 DUPLICATE REM L4 (0 DUPLICATES REMOVED)

=> d l5 1-5 bib ab

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:277491 CAPLUS
DN 142:458829
TI Self-cleavage of fusion protein in vivo
using TEV protease to yield native protein
AU Shih, Yan-Ping; Wu, Hui-Chung; Hu, Su-Ming; Wang, Ting-Fang;
Wang, Andrew
H.-J.
CS Institute of Biological Chemistry and National Core Facilities
of High
Throughput Protein Production, Academia Sinica, Taipei, 115,
Taiwan
SO Protein Science (2005), 14(4), 936-941
CODEN: PRCIEI; ISSN: 0961-8368
PB Cold Spring Harbor Laboratory Press
DT Journal
LA English
AB Overprod. of proteins from cloned genes using fusion protein
expression
vectors in Escherichia coli and eukaryotic cells has increased
the
quantity of protein produced. This approach has been widely
used in
producing soluble recombinant proteins for structural and
functional anal.
One major disadvantage, however, of applying this approach for
clin. or

bioindustrial uses is that proteolytic removal of the fusion
 carrier is
 tedious, expensive, and often results in products with addnl.
 amino acid
 residues than the native proteins. Here we describe a new
 method for
 productions of native proteins with original amino termini in
 vivo via
 intracellular self-cleavage of the fusion
 protein using tobacco etch virus (TEV) protease. Our design
 allows one to simultaneously clone any gene into multiple fusion
 protein
 vectors using two unique cloning sites (i.e., SnaBI and XhoI)
 without
 restriction digestion, and then rapidly identifies those
 constructs
 producing soluble native proteins. This method will make the
 fusion protein
 approach more feasible for protein drug research.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2003:875431 CAPLUS
 DN 139:359898
 TI Reporter-selectable hepatitis C virus replicon and its stably
 transfected
 hepatoma cell line for drug screening
 IN Duggal, Rohit; Patick, Amy Karen; Zhang, Jie; Zhao, Weidong
 PA Pfizer Inc., USA
 SO PCT Int. Appl., 52 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
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PI WO 2003091439	A1	20031106	WO 2003-IB1687
20030422			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,			
CH, CN,			
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,			
GE, GH,			
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,			
LK, LR,			
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,			
NZ, OM,			
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN,			
TR, TT,			

TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI,
 SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
 TD, TG

CA 2483513 A1 20031106 CA 2003-2483513
 20030422

AU 2003225479 A1 20031110 AU 2003-225479
 20030422

EP 1499727 A1 20050126 EP 2003-747188
 20030422

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU,
 SK

JP 2005523705 T 20050811 JP 2003-587967
 20030422

MX 2004PA10548 A 20050125 MX 2004-PA10548
 20041025

PRAI US 2002-375667P P 20020426
 WO 2003-IB1687 W 20030422

AB The invention relates to a reporter-selectable hepatitis C virus
 (HCV)

replicon, and use of the replicon to generate stable, human
 hepatoma cell

lines. Specifically, a replicon (BB7-M4-hRLuc) has been
 constructed

containing the 5' NTR fused to a small portion of the core
 coding region, the

humanized Renilla luciferase gene (hRLuc), a self-cleaving
 peptide of foot

and mouth disease virus (FMDV) 2A proteinase, the NPTII gene,
 and an EMCV

IRES (designated EI), followed by the NS3 to NS5B HCV coding
 region and

the 3' NTR region. The replicon has two adaptive mutations in
 NS3 (E1202G

and T1280I) and one in NS5A (S2197P). The stable hepatoma cell
 line

(BB7M4hRLuc#10) stably transfected with this HCV replicon is
 capable of

generating 700,000 relative light units (RLU, units for
 expressing

luciferase activity) of reporter gene activity, which amts. up
 to a 70

fold difference in signal to noise ratios compared to other
 available

stable cell line. The replicon and cell lines are useful in the compound

screening process in HCV drug discovery.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:510609 CAPLUS

DN 125:161813

TI Cloning, expression and purification of HIV-1 protease

AU Wan, Min; Takagi, Masahiro

CS Faculty Medicine, National University Singapore, Singapore

SO Microbial Utilization of Renewable Resources (1996), Volume Date
1995, 9,

348-361

CODEN: MURRE6

PB International Center for Cooperative Research in Biotechnology,
Japan

DT Journal

LA English

AB Various constructs containing the N-terminal extended human
immunodeficiency

virus type 1 (HIV-1) protease gene (PR 107) were studied. The
constructs

of PR 107 gene expressed as fusion protein with the glutathione
S-transferase of the GST gene or the maltose-binding protein
(MBP) of the

Mal E gene showed that the full-length fusion protein
exhibited self-processing in E. coli. The results from expts.
indicated that the size of the fusion portion could not affect
the

self-processing of HIV-1 protease obviously. Although
the larger fusion portion (MBP) may offer bigger

steric-interference for

the formation of the appropriate conformation of the fused
protease and therefore lower the self-cleavage process,

the protease could still easily self-process from the
fusion portion to release itself, despite that only one subunit
of the

dimeric protease attached to GST or MBP. An isolation method
consisting

of denaturation of protein and followed by refolding was
developed for

releasing this recombinant HIV-1 PR into the soluble phase since
most of the

expressed protease was initially present in insol. inclusion
bodies. More

than 600-fold purification was obtained by sequential
purification using Sephadex

G-50 gel filtration and CM-23 cellulose cation exchange
chromatog.,

yielding the protease whose purity was more than 95%. SDS-PAGE indicated

that the mol. weight of this recombinant HIV-1 PR is 11 kDa. The recombinant

HIV-1 protease showed proteolytic activity for the synthetic peptide

substrate corresponding to the sequence of gag MA/CA and pol p6*/PR

junctions. Immuno-blotting indicated that these recombinant HIV-1

protease specifically reacted with HIV-1 protease antisera. The purified

enzyme whose specific activity for the heptapeptide SQNYPIV was 848.7

nmol*min⁻¹*mg protease⁻¹ also processed recombinant polyprotein Gag41 as

its substrate.

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1995:642290 CAPLUS

DN 123:219557

TI Replicating foamy virus-based vectors directing high level expression of

foreign genes

AU Schmidt, Michael; Rethwilm, Axel

CS Institut fuer Virologie und Immunbiologie, Universitaet Wuerzburg,

Wuerzburg, 97078, Germany

SO Virology (1995), 210(1), 167-78

CODEN: VIRLAX; ISSN: 0042-6822

PB Academic

DT Journal

LA English

AB Replication-competent retroviral vectors (pFOV-1 to -3 and -7) were

constructed on the basis of an infectious human foamy virus mol. clone

which has deletions in the U3 region of the long terminal repeat and in

the 3' region of the genome, previously identified to be nonessential for

virus replication in vitro. The CAT and luciferase indicator genes were

expressed as C-terminal fusion proteins to 215 amino acids of the viral

Bet protein in the pFOV-1 vector. Introduction of the foot-and-mouth

disease 2A protease sequence between the truncated bet coding sequence and

the cloning site for the insertion of foreign genes in the pFOV-7 vector

resulted in self-cleaving of the recombinant fusion protein. Alternatively, an internal ribosomal binding site was introduced, allowing expression of authentic foreign protein (pFOV-2 and -3 vectors). DNA fragments derived from the mouse hepatitis virus surface gene up to the length of 1.3 kb were inserted into pFOV-1. The vector constructs gave rise to viruses which were fully infectious in diploid human fibroblasts and recombinant viruses stably expressed high levels of foreign protein indicating that the pFOV vectors may be useful tools to study the effects of proteins of interest at least in tissue culture cells.

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1991:576747 CAPLUS
 DN 115:176747
 TI Self-cleaving fusion proteins
 IN Louis, John M.
 PA National Institutes of Health, USA
 SO U. S. Pat. Appl., 38 pp. Avail. NTIS Order No. PAT-APPL-6-586
 079.

CODEN: XAXXAV

DT Patent
 LA English
 FAN.CNT 1

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
-----	-----	----	-----	-----

PI	US 586079	A0	19910801	US 1990-586079
19900921				
	US 6077694	A	20000620	
	WO 9205276	A1	19920402	WO 1991-US6735
19910920				
	W: AU, CA, JP			
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE			
	AU 9185377	A	19920415	AU 1991-85377
19910920				
PRAI	US 1990-586079	A	19900921	
	WO 1991-US6735	A	19910920	
AB	Self-processing fusion proteins are used for the manufacture of a protein of interest. The fusion protein has three domains: an affinity domain for rapid purification of the protein by affinity chromatog.; a retroviral			

proteinase domain flanked by cleavage sites recognized by the proteinase;

and, a domain of interest (the target protein). After purification of the

protein by affinity chromatog. the protein is partially denatured allowing

the proteinase to cleave it into three domains. When the fusion protein

is accumulated as inclusion bodies, it may be cleaved during the denaturation/solubilization process. Use of sequences from the pol region

of the retrovirus gene can be used to control solubility of the protein. The

use of this procedure to purify and accurately cleave soluble and insol.

fusion proteins of human immunodeficiency virus proteinase and the

Escherichia coli malE gene product was demonstrated.

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1039	protease near4 (fusion protein)	US-PGPUB; USPAT	ADJ	OFF	2007/12/20 20:10
L2	83	protease near4 (auto)	US-PGPUB; USPAT	ADJ	OFF	2007/12/20 20:11
L3	6	l1 and l2	US-PGPUB; USPAT	ADJ	OFF	2007/12/20 20:11

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